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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/844,656		04/30/2001	John Mantegna	06975-208001/Processing 0	9011	
26171	7590	06/15/2004		EXAMINER		
FISH & RI				QURESHI, S	SHABANA	
1425 K STR 11TH FLOC	,	<i>/</i> .		ART UNIT PAPER NUMBER		
WASHINGTON, DC 20005-3500				2155		

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application No.	Applicant(s)	-I
		09/844,656	MANTEGNA, JOHN	dr
	Office Action Summary	Examiner	Art Unit	
		Shabana Qureshi	2155	
7 Period for F	The MAILING DATE of this communication	ntion appears on the cover sheet	with the correspondence address	
A SHOR THE MA - Extensio after SIX - If the per - If NO pe - Failure to Any reply	ETENED STATUTORY PERIOD FOR ILLING DATE OF THIS COMMUNIC, as of time may be available under the provisions of (6) MONTHS from the mailing date of this communiod for reply specified above is less than thirty (30) of the reply is specified above, the maximum statuly received by the Office later than three months after atent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may ication. Jays, a reply within the statutory minimum of tory period will apply and will expire SIX (6) MI, by statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communicate ABANDONED (35 U.S.C. § 133).	ion.
Status				
2a)∏ Tł 3)∏ Si	esponsive to communication(s) filed als action is FINAL . 2b nee this application is in condition foo sed in accordance with the practice)⊠ This action is non-final. r allowance except for formal ma	·	is
Disposition	of Claims			
4a 5)☐ Cl 6)⊠ Cl 7)☐ Cl	aim(s) <u>1-3</u> is/are pending in the appl) Of the above claim(s) is/are aim(s) is/are allowed. aim(s) <u>1-3</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction	withdrawn from consideration.		
Application	Papers			
10)⊠ Th Ap Re	e specification is objected to by the le drawing(s) filed on 30 April 2001 is objected to any objection of the placement drawing sheet(s) including the oath or declaration is objected to be	s/are: a)⊠ accepted or b)⊡ ob on to the drawing(s) be held in abey ne correction is required if the drawin	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121	(d).
Priority und	ler 35 U.S.C. § 119			
a)□ 1. 2. 3.	- ' ' '	ocuments have been received. Ocuments have been received in the priority documents have been all Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage	
2) Notice o 3) Informat	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTC on Disclosure Statement(s) (PTO-1449 or PT o(s)/Mail Date)-948) Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paradine et al (US Patent No. 6,049,565) in view of Erkelens et al¹.

As per claims 1, 2 and 3, Paradine et al teach the method, computer program, and computer system for detecting whether a microphone is connected to a real-time audio communication system of a computer comprising:

- recording all audio sample through the real-time audio communication system (column 4, lines 26-35);
- filtering a DC component out of the audio sample (column 4, lines 36-45);
- comparing the filtered audio sample parameters to predetermined values (column 6, lines 17-20); and
- determining whether a microphone is properly connected to the real-time audio communication system based on a relationship between the values of the sample's parameters the predetermined values (column 5, lines 16-25, column 6, lines 7-25).

¹ J.S. Erkelens and P.M.T. Broersen, "Bias Propagation in the Autocorrelation Method of Linear Prediction", IEEE Trans. on Speech and Audio, vol. 5, pp. 116-119, 1997.

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Although Paradine teaches that there are many methods that allow one to determine whether or not the sample is a voice sample (column 5, lines 16-25), Paradine et al do not go into detail about the parameters involved, such as auto-correlation coefficients of the filtered audio sample. However, Erkelens et al teaches the determining of auto-correlation coefficients of and audio sample (page 116). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the auto-correlation coefficients taught by Erkelens in the teachings of Paradine et al so to perform linear prediction in order to determine whether the signal is a voice signal (Erkelens et al, page 116; Paradine et al, page 5, lines 15-25).

Paradine et al also do not explicitly state that the determination that a signal is a voice signal results in the determination that a microphone is properly connected to the real-time audio communication system. However, official notice is taken that it would have been obvious to one of ordinary skill in the art at the time of the invention that the detection of a voice signal means that the microphone is properly connected, because if it was not properly connected, the there would be no voice signal.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shabana Qureshi whose telephone number is (703) 308-6118.

The examiner can normally be reached on Monday - Friday, 8:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain T. Alam can be reached on (703) 308-6662. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shabana Qureshi

Examiner

Art Unit 2155

SQ

14 June, 2004

HOSAIN ALAM

SUPERVISORY PATENT EXAMINER